IT instruction is a conditional instruction. Condition can be same or it can also be logically inverse. Conditional instruction

inside block forms conditional IT block.

The following instructions are not allowed inside an IT Block

1.IT

2.CBZ and CBNZ

3.CPSIDE and CPSIE

A branch instruction either must be outside the IT block or last instruction of IT block,Care must be taken to avoid the branching

instruction inside an IT block,except when returning from exception hanadler.Bcod instruction can be inside or outside an IT block.

Each instruction inside the IT block must specify a conditional code suffix ,this is the problem with the given code.

The given code is

;PRESERVE8

;thumb

area appcode, CODE, READONLY

export \_\_main

ENTRY

\_\_main function

MOV R3, #0x100

MOV R8, #0x200

CMP R8, R3 ; do R8 - R3 & updated N & V flags

ITTTE LT ; or N != V

MOV R3, #0x100

MOV R8, #0x200

MOV R7, #0x200

MOV R6, #0x200

stop B stop ; stop program

endfunc

end

As it is clear from code that suffix of the instruction is missing therfore it throws an error.The correct code for IT block is

written below.

ITTTE LT ; or N != V

MOVLT R3, #0x100; // instruction is changed from MOV to MOVLT

MOVLT R8, #0x200; // instruction is changed from MOV to MOVLT

MOVLT R7, #0x200; // instruction is changed from MOV to MOVLT

MOVGE R6, #0x200' // instruction is changed from MOV to MOVLT

stop B stop ; stop program